Technical Cybersecurity

NMAP Lab Configuration

An NMAP Lab

VMWare or VirtualBox

- I use VMWare. I think it has better networking support
- VirtualBox should be fine too, I've used it in the past

Class will be taught from a VMWare perspective. If you use VirtualBox, you will be able to translate my directions, but it won't be accurate.

You'll be on your own.

Linux Images

Kali Linux

- Penetration testing distribution.
- It has the majority of tools we'll be using preinstalled

UBUNTU LTS

We'll use various Ubuntu VMs as pivots, other work when we don't want to spend the time hacking it to start with

CUSTOM DISROS

- Metasploitable, DVL, etc.
- We'll attack these

Aside: Linux or Windows?

MOSTLY LINUX. WHY?

- ...we can still acquire copies of Windows 95 or XP, but you can't get licenses! Microsoft doesn't sell them.
- You can buy them from places like ebay
- You can find them online (...but illegal, so let's not do that)

OLD VERSIONS OF LINUX ARE EASIER TO FIND

And the license terms are better :-)

Step 1: Download

KALI LINUX

- https://www.offensive-security.com/kali-linux-vm-vmwarevirtualbox-image-download/
- You can download VirtualBox and VMWare images
- Created by Offensive Security

UBUNTU LTS

- https://www.osboxes.org
- Download VirtualBox or VMWare images
- Or download ISO from Ubuntu
- I used the server ISO

Step 1: Download

METASPLOITABLE

- https://sourceforge.net/projects/metasploitable/
- Also created by Offensive Security
- ...used with their online Metasploit book, which we'll use later

Step 2: Installation

IMAGES

Just open the images with your virtualization product

ISOs

- Create a new VM, install into the VM using the ISO
- Kali, Metasploitable install with defaults
- For Ubuntu YOU MUST ENSURE SSH IS INSTALLED
 - ...we'll use this for tunneling
 - ...we'll use other command line stuff to but make sure SSHD is installed on the Ubuntu image

Next up, networking.